



Requirements: Shipping Price Calculations

Each delivery service has its own endpoint.

A request to the delivery service URL returns the following parameters:

"name": Service name

"isItPossibleToDeliver": Possibility of delivery (true/false)

"hostDeliveryCost": Shipping price for us

"toBeDeliveredTime": Delivery time range

"clientDeliveryCost": Shipping price for the client

- **name** — always the same when the same delivery service is addressed. Values are taken from the parameters table in the requirements.
- **toBeDeliveredTime** — the time range when the service will make the delivery. This is always the same when the same delivery service is addressed. The value is returned with a minimum and maximum time. You can view those values in the “Fulfilment time” column from the table below.
- In the request itself, **deliveryTime** is the time when the user expects their delivery, in hours.
- **isItPossibleToDeliver** — **true** when the time in **deliveryTime** is within the range of the delivery service's working hours, and **false** when it's not.
- **hostDeliveryCost** — the price of internal delivery is calculated according to the table below. In all other cases, **hostDeliveryCost** will be equal to **7**.

The application will take the request, process it according to the table below, and send a response.

Name	Operating Hours	No of products in the order (pcs)	Order weight	Fulfilment time	Shipping price(\$)	Data format
Speedy	08-22	1-10	0-3 kg	30-35 minutes	4	JSON
Speedy	08-22	11-15	3.1-7 kg	30-35 minutes	7	JSON
Fast Delivery	07-21	1-7	0-2.5 kg	25-30 minutes	3	XML
Fast Delivery	07-21	8-14	2.6-6 kg	25-30 minutes	6	XML
Food Service	06-20	1-12	0-3.5 kg	25-30 minutes	5	SOAP
Food Service	06-20	13-20	3.6-9 kg	25-30 minutes	7	SOAP

Name	Operating Hours	No of products in the order (pcs)	Order weight	Fulfillment time	Shipping price(\$)	Data format
Order and Go	08-22	1-9	0-3 kg	20-25 minutes	3	JSON
Order and Go	08-22	10-15	3.1-6 kg	20-25 minutes	5	JSON

The cost is calculated using the variables passed in `productsCount` (number of products in the order) and `productsWeight` (order weight).

Let's take the "Speedy" delivery service as an example:

IF `productsCount` is less than or equal to `10 pcs.`

AND `productsWeight` is less than or equal to `3 kg`

THEN `hostDeliveryCost` will be equal to `4`.

`clientDeliveryCost` — the shipping price for the client is calculated according to the table.

The cost is calculated using the variables passed in `productsCount` (number of products in the order) and `productsWeight` (order weight).

Shipping price for the client can be equal to 0 and 9.

Then the shipping price will be 9 if at least one of the following conditions is met:

- The maximum number of products is exceeded.
- The maximum weight is exceeded.

Please refer to the `hostDeliveryCost` table above to see the limits for weight and quantity. Anything that is above the value listed in the table exceeds the maximum limit.

For example, for the "Speedy" delivery service:

IF `productsWeight` is greater than `7 kg` (maximum value in the table)

OR `productsCount` is greater than `15 pcs.` (maximum value in the table)

THEN `clientDeliveryCost` will be equal to `9`.

In all other cases, `clientDeliveryCost` will be equal to `0`.

The "Order price less than \$7" condition applies to the product order endpoint, not the delivery service endpoint.